

General Purpose

110 Typical Properties

110 Phenolic is a two-stage, asbestos-free, general purpose moulding material. It exhibits versatile mouldability plus a balance of physical and electrical properties which make it suitable for many diverse applications.

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|--|---|---------------------------------------|
| Test Method 测试方法 | ASTM (American Society for Testing and Materials) | |
| Features 特征 | Moulding latitude | |
| Colour 色调 | Black Brown | |
| Material Form 粉末形状 | Granular | |
| Type 种类 | 2-stage | |
| Moulding Method 成形方法 | Compression Transfer Injection | |
| Physical Properties 物理特性 | | |
| - Bulk Factor 体积系数 | D1895 | 2.30 |
| - Apparent Density 视密度 | D1895 | 0.62 g/cm ² |
| - Specific Gravity 比重 | D792 | 1.42 |
| - Moulded Shrinkage 成形收缩率 | D955 | 0.80 % ~ 1.10 % |
| - Water Absorption 吸水率 | D570 | 0.50 % |
| Mechanical Properties 机械特性 | | |
| - Tensile Strength 引张强度 | D638 | 7,000 psi (48 Mpa) |
| - Flexural Strength 曲折强度 | D790 | 10,000 psi (69 Mpa) |
| - Compressive Strength 压缩强度 | D695 | 30,000 psi (210 Mpa) |
| - Impact, Izod 冲击强度 | D256 | 0.28 ft-lb/in (15 J/m) |
| - Tensile Modulus 引张弹性率 | D638 | 1.0 x 10 ⁶ psi (6,900 Mpa) |
| - Deflection Temperature @ 264 psi - 荷重变形温度 @ 264 psi | D648 | 182 °C |
| Electrical Properties 电气特性 | | |
| - Dielectric Strength 耐电压 | D149 | 375 V/mil |
| - Volume Resistivity 体积抵抗 | D257 | 1 x 10 ¹² ohm-cm |
| Flame Resistance 耐燃性 | | |
| - UL Flammability UL 燃烧性 | 94V-0 @ 6.40 mm 94V-1 @ 3.00 mm | |
| ASTM Type ASTM 种类 | 2 | |
| Applications 用途 | Wiring devices Pots and pans handles, etc., | |

Note: All specimens prepared by Compression Moulding.



SumiDurez Singapore Pte Ltd
Tel: 65-62651717
Fax: 65-62641916
www.sumidurez.com.sg

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